

## IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A method of treating a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to [[or]] and activating a GLP-1 receptor *in vivo*.

2. (Original) The method according to claim 1, wherein the symptom is selected from the group consisting of insulin resistance, hyperinsulinemia, type-2 diabetes, obesity, hypertension, hyperlipidemia, anovulation or irregular ovulation, infertility, hyperandrogenism, hirsutism, alopecia, acne, enlarged multifollicular ovaries, abnormal uterine bleeding, and spontaneous abortion.

3. (Original) The method according to claim 1, wherein the subject is a human.

4. (Previously presented) The method according to claim 1, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

5. (Previously presented) The method according to claim 1, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

6. (Previously presented) The method according to claim 1 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 7.-11. (Cancelled)

12. (Currently Amended) A method of reducing insulin resistance in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to [[or]]and activating a GLP-1 receptor *in vivo*, to thereby reduce insulin resistance in said subject.

13. (Original) The method according to claim 12, wherein the subject is a human.

14. (Previously presented) The method according to claim 12, wherein said peptide compound comprises a GLP-1 peptide or exendin peptide.

15. (Previously presented) The method according to claim 12, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

16. (Previously presented) The method according to claim 12 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 17.-21. (Cancelled)

22. (Currently Amended) A method of preventing the onset of type-2 diabetes in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to ~~[[or]]~~and activating a GLP-1 receptor *in vivo*, to thereby prevent the onset of type-2 diabetes in said subject.

23. (Original) The method according to claim 22, wherein the subject is a human.

24. (Previously presented) The method according to claim 22, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

25. (Previously presented) The method according to claim 22, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

26. (Previously presented) The method according to claim 22 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 27.-31. (Cancelled)

32. (Currently Amended) A method of restoring regular menses in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to ~~[[or]]~~and activating a GLP-1 receptor *in vivo*, to thereby restore regular menses in said subject.

33. (Original) The method according to claim 32, wherein the subject is a human.

34. (Previously presented) The method according to claim 32, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

35. (Previously presented) The method according to claim 32, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

36. (Previously presented) The method according to claim 32 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 37.-41. (Cancelled)

42. (Currently Amended) A method of restoring regular ovulation in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of suffering from~~ PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to ~~[[or]]~~ and activating a GLP-1 receptor *in vivo*, to thereby restore regular ovulation in said subject.

43. (Original) The method according to claim 42, wherein the subject is a human.

44. (Previously presented) The method according to claim 42, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

45. (Previously presented) The method according to claim 42, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

46. (Previously presented) The method according to claim 42 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 47.-51. (Cancelled)

52. (Currently Amended) A method of restoring fertility in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to ~~[[or]]~~ and activating a GLP-1 receptor *in vivo*, to thereby restore fertility in said subject.

53. (Original) The method according to claim 52, wherein the subject is a human.

54. (Previously presented) The method according to claim 52, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

55. (Previously presented) The method according to claim 52, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

56. (Previously presented) The method according to claim 52 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 57.-61. (Cancelled)

62. (Currently Amended) A method for preventing spontaneous abortion in a subject suffering from PCOS, said method comprising administering to a subject ~~exhibiting at least one symptom of~~ suffering from PCOS an amount effective to treat said at least one symptom of PCOS of a peptide compound capable of binding to [[or]]and activating a GLP-1 receptor *in vivo*, to thereby prevent spontaneous abortion in said subject.

63. (Original) The method according to claim 62, wherein the subject is a human.

64. (Previously presented) The method according to claim 62, wherein said peptide compound comprises a GLP-1 peptide or an exendin peptide.

65. (Previously presented) The method according to claim 62, wherein the peptide compound is administered by an infusion pump or by subcutaneous injection of a slow release formulation.

66. (Previously presented) The method according to claim 62 wherein the peptide compound is administered with an agent selected from the group consisting of an ovulation inducing drug, an anti-androgenic drug, an insulin-sensitizing agent and glucose.

Claims 67.-71. (Cancelled)

72. (Previously presented) The method of claim 1, wherein said peptide compound comprises a GLP-1 peptide.

73. (Previously presented) The method of claim 1, wherein said peptide compound comprises exendin-3 or exendin-4.

74. (Previously presented) The method of claim 73, wherein said peptide compound comprises exendin-4 acid.

75. (Previously presented) The method of claim 73, wherein said peptide compound comprises exendin-4 amide.

76. (Previously presented) The method of claim 1, wherein said peptide compound comprises an exendin analog.

77. (Cancelled)

78. (Previously presented) The method of claim 12, wherein said peptide compound comprises a GLP-1 peptide.

79. (Previously presented) The method of claim 12, wherein said peptide compound comprises exendin-3 or exendin-4.

80. (Previously presented) The method of claim 79, wherein said peptide compound comprises exendin-4 acid.

81. (Previously presented) The method of claim 79, wherein said peptide compound comprises exendin-4 amide.

82. (Previously presented) The method of claim 12, wherein said peptide compound comprises an exendin analog.

83. (Cancelled)

84. (Previously presented) The method of claim 22, wherein said peptide compound comprises a GLP-1 peptide.

85. (Previously presented) The method of claim 22, wherein said peptide compound comprises exendin-3 or exendin-4.

86. (Previously presented) The method of claim 85, wherein said peptide compound comprises exendin-4 acid.

87. (Previously presented) The method of claim 85, wherein said peptide compound comprises exendin-4 amide.

88. (Previously presented) The method of claim 22, wherein said peptide compound comprises an exendin analog.

89. (Cancelled)

90. (Previously presented) The method of claim 32, wherein said peptide compound comprises a GLP-1 peptide.

91. (Previously presented) The method of claim 32, wherein said peptide compound comprises exendin-3 or exendin-4.

92. (Previously presented) The method of claim 91, wherein said peptide compound comprises exendin-4 acid.

93. (Previously presented) The method of claim 91, wherein said peptide compound comprises exendin-4 amide.

94. (Previously presented) The method of claim 32, wherein said peptide compound comprises an exendin analog.

95. (Cancelled)

96. (Previously presented) The method of claim 42, wherein said peptide compound comprises a GLP-1 peptide.

97. (Previously presented) The method of claim 42, wherein said peptide compound comprises exendin-3 or exendin-4.

98. (Previously presented) The method of claim 97, wherein said peptide compound comprises exendin-4 acid.

99. (Previously presented) The method of claim 97, wherein said peptide compound comprises exendin-4 amide.

100. (Previously presented) The method of claim 42, wherein said peptide compound comprises an exendin analog.

101. (Cancelled)

102. (Previously presented) The method of claim 52, wherein said peptide compound comprises a GLP-1 peptide.

103. (Previously presented) The method of claim 52, wherein said peptide compound comprises exendin-3 or exendin-4.

104. (Previously presented) The method of claim 103, wherein said peptide compound comprises exendin-4 acid.

105. (Previously presented) The method of claim 103, wherein said peptide compound comprises exendin-4 amide.

106. (Previously presented) The method of claim 52, wherein said peptide compound comprises an exendin analog.

107. (Cancelled)

108. (Previously presented) The method of claim 62, wherein said peptide compound comprises a GLP-1 peptide.

109 (Previously presented) The method of claim 62, wherein said peptide compound comprises exendin-3 or exendin-4.

110. (Previously presented) The method of claim 109, wherein said peptide compound comprises exendin-4 acid.

111. (Previously presented) The method of claim 109, wherein said peptide compound comprises exendin-4 amide.

112. (Previously presented) The method of claim 62, wherein said peptide compound comprises an exendin analog.

113. (Cancelled)